Haley Morgan

Software Engineer

Phone	(774)-262-7555		**GitHub**	github.com/h-morgan
Email	haleymorgan3264@gmail.com		**LinkedIn**	linkedin.com/in/haleymorgan
Location	Boston, MA		**Personal**	haleyemorgan.com

TECHNICAL SKILLS OVERVIEW

Languages: Python, SQL (PostgreSQL, MySQL), HTML, CSS, Java, JavaScript
Tooling/Other: AWS, Azure, Docker, Terraform, Kubernetes, Git, APIs, RabbitMQ

PROFESSIONAL EXPERIENCE

AUG 2021 – PRESENT
Remote

Backend Software Engineer – Datapeople

- Design and develop custom integrations in a common architecture to build data pipelines and enable use of data from 3rd party APIs (using Python, MySQL, Docker, AWS)
- Maintain, expand, and refactor data pipelines through continuous feature design and development, bug fixes, security and CPU/memory efficiency enhancements
- Create and maintain AWS resources including ECS tasks, step functions, lambda functions, s3 buckets, logs, databases, users/permissions (using Terraform)
- Develop and maintain automation tools for in-house use by non-technical product managers to automate setup process for new customer integration requests
- Develop and maintain documentation surrounding all integrations, internal APIs, architecture decisions, data pipeline considerations/nuances
- Collaborate with cross-functional teams to ensure understanding of request requirements and communicate progress

SEP 2020 - AUG 2021
Remote

Software Engineer – BNY Mellon, Data & Analytics Solutions

- Design and develop custom data pipeline microservices to process and load multisource data using Python (Flask), RabbitMQ messaging, and PostgreSQL database, Kubernetes
- Design, develop, and maintain a data quality and validation service to capture statistics on data processed within the pipeline and ensure 100% application data accuracy
- Develop command line tools to enable non-technical business users to manager their own access/loads to database, consult with users and teach them how to use CLI tools
- Create comprehensive documentation in Confluence around all microservices - including setup instructions, running the services, troubleshooting, and example uses
- Manage service deployments in dev, stage, and prod environments for Python microservices
- Maintain >93% unit test coverage on all code repositories I am responsible for

OCT 2019 - SEP 2020
Lexington, MA

Research Programmer – Boston Fusion Corp. (Security Clearance: Top Secret)

- Design and develop machine learning software for anomaly detection research programs in direct consultation with project Principal Investigator (PI)
- Develop parsers to fuse multisource data to develop and integrate large processed datasets for use in predictive analytics and software programs
- Lead UI development for design, build, and production of full-stack web applications according to client specifications and needs

PERSONAL PROJECTS

MAR 2020 – PRESENT

Value Investment Research Application

Developing investment research application and database for public company historical fundamental data

JUN 2021 - PRESENT

Cryptocurrency/NFT Tax Preparation Tools

Developing backend tax preparation tools in consultation with CPAs to automate calculation of mining taxes

EDUCATION

2020 **University of Pennsylvania (UPenn) -** *Professional Certificate, Computer Science Essentials*

2016 **Worcester Polytechnic Institute (WPI) -** *Bachelor of Science, Civil Engineering*